IFW
10/611792

of 249 James Mackey

What Is Claimed Is:

1. An ice molding device for forming an ice ring on the inner surface of a bottle comprising:

a substantially cylindrical shaft having a first end and a second end and having an outer diameter smaller than the inner diameter of the neck of a bottle, and

a seal on the outer circumference of said shaft near said first end, said seal having an outer diameter sized to form a fluid tight seal with the inner diameter of the neck of a bottle.

2. An ice molding device according to Claim 1, further comprising:

a handle attached to said first end of said shaft.

3. An ice molding device according to Claim 2, wherein:

said handle has a substantially planar surface perpendicular to the axis of said cylindrical shaft.

4. An ice molding device according to Claim 3, wherein:

said shaft and said handle have a fluid passageway adapted for flowing fluid between said handle and said second end of said shaft.

5. An ice molding device according to Claim 1, further comprising:

an annular recess formed on the outer surface of said shaft near said first end.

6. An ice molding device according to Claim 5, wherein:

said seal comprises an O-ring partially located within said annular recess.

7. A method for forming an ice ring on the inner surface of a drink bottle, comprising;

inserting an ice molding device through the neck of a drink bottle to form a water tight seal between said molding device and the inner surface of said neck, said ice molding device comprising a cylindrical shaft having a first end and a second end and having an outer diameter smaller than the inner diameter of the neck of a bottle, and a seal formed on the outer circumference of said shaft near said first end, said seal having an outer diameter sized to form a fluid tight seal with the inner diameter of the neck of a bottle;

placing a selected amount of liquid within said bottle;

positioning the bottle neck side down; and

freezing the liquid in said bottle, the liquid forming said ice ring when frozen.

8. A method for forming an ice ring on the inner surface of a drink bottle according to claim 7, and further comprising:

removing said ice molding device.

9. A method for forming an ice ring on the inner surface of a drink bottle according to Claim 7, wherein:

said ice molding device has a fluid passageway from said first end to said second end, and

said step of placing a selected amount of fluid within said bottle, comprises flowing fluid through said fluid passageway into said bottle.

10. A method for forming an ice ring on the inner surface of a drink bottle according to Claim 9, further comprising:

turning said bottle into an inverted position so that fluid in excess of said selected amount flows through said passageway and out of said bottle.

11. A method for forming an ice ring on the inner surface of a drink bottle according to Claim 7, wherein:

said ice molding device comprises a handle attached to said first end of said cylindrical shaft.

12. A method for forming an ice ring on the inner surface of a drink bottle according to Claim 11, wherein:

said handle has a substantially planar surface perpendicular to the axis of said cylindrical shaft.

13. A method for forming an ice ring on the inner surface of a drink bottle according to Claim 12, wherein:

said step of positioning the bottle neck side down comprises placing the planar surface of said handle on a substantially horizontal supporting surface.

14. A method for forming an ice ring on the inner surface of a bottle containing a drink, comprising:

inserting an ice molding device through the neck of a bottle to form a water tight seal between said molding device and the inner surface of said neck, said ice molding device comprising a cylindrical shaft having a first end, a second end and a fluid passageway extending from said first end to said second end, said ice molding device having an outer diameter smaller than the inner diameter

of the neck of said bottle, and a seal formed on the outer circumference of said shaft near said first end, said seal having an outer diameter sized to form a fluid tight seal with the inner diameter of the neck of said bottle;

placing a selected amount of a liquid within said bottle by flowing said liquid through said fluid passageway and into said bottle;

positioning the bottle neck side down;

freezing said selected amount of said liquid in said bottle, said selected amount of said liquid forming said ice ring when frozen;

placing a selected amount of drink within said bottle by flowing said drink through said fluid passageway and into said bottle; and

removing said ice molding device.

15. A method for forming an ice ring on the inner surface of a drink bottle according to Claim 14 wherein:

said ice molding device comprises a handle attached to said first end of said cylindrical shaft, said handle having a substantially planar surface generally orthogonal to the axis of said cylindrical shaft.

16. A method for forming an ice ring on the inner surface of a drink bottle according to Claim 15, wherein:

said step of positioning the bottle neck side down comprises placing the planar surface of said handle on a substantially horizontal supporting surface.

17. For a bottle having a main body portion which defines an interior volume of said bottle and a neck portion positioned above and integrally formed with said

main body portion, said neck portion defining an access opening into said interior volume of said bottle, a device for forming ice within said bottle, comprising:

a shaft member having first and second ends, said shaft member sized such that a first portion thereof extends into said interior volume of said bottle and an exterior side surface of a second portion frictionally engages an interior side of said neck portion of said bottle when said shaft member is inserted through said access opening of said bottle; and

a handle member attached to said first end of said shaft, said handle member remaining outside said access opening of said bottle when said shaft member is inserted therethrough;

wherein an ice ring is formable between an exterior side surface of said first portion of said shaft and said interior side surface of said main body portion.

18. An ice molding device according to claim 17, wherein:

said shaft and said handle have a fluid passageway adapted for flowing fluid between said handle and said second end of said shaft formed therein; and

wherein said ice ring is further formable between said neck portion of said bottle and said second end of said shaft.

19. An ice molding device according to claim 17, and further comprising:

means for forming a fluid tight seal between said exterior side surface of said second portion of said shaft and said interior side surface of said neck.

20. An ice molding device according to claim 18, wherein said means for forming a fluid tight seal further comprises a seal engaged to said exterior side

surface of said second portion of said shaft, said seal having an outer diameter sized to form said fluid tight seal with said interior side surface of said neck.

21. An ice molding device according to claim 20, and further comprising:

an annular recess formed on said exterior side surface of said second portion of said shaft; and

wherein said seal further comprising an O-ring partially located within said annular recess.